**Amendments to the claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of claims:**

1. (Currently amended) A mosquito misting system comprising:

a) a fluid reservoir ~~for~~ containing fluid insecticide;

b) a misting nozzle for dispersal of fluid insecticide;

c) a conduit for transmitting fluid insecticide from the reservoir to the nozzle;

d) a pump for flowing fluid insecticide through the conduit;

e) an agitator ~~for~~ drawing outside air into the fluid reservoir ~~for~~ and mixing ~~of~~ fluid insecticide within the reservoir; and

f) a ~~programmable~~ controller having a programmable digital processor and a timer for selectively operating the pump and the agitator in accordance with pre-programmed control parameters, the preprogrammed control parameters including a timed cycle for operation of the pump and the agitator.

2. (Previously presented) The mosquito misting system of claim 1 further comprising a level sensor assembly having a plurality of float sensor assemblies located at selected levels within the reservoir, the level sensor further providing a signal to the controller indicative of the level of fluid insecticide within the reservoir.

3. (Previously presented) The mosquito misting system of claim 1 further comprising a pressure switch operably associated with the fluid conduit to detect a pressure drop within the conduit and stop the pump in the event such a drop is detected.

4. (Previously presented) The mosquito misting system of claim 1 further comprising a remote control for operation of the controller.

5. (Previously presented) The mosquito misting system of claim 1 further comprising a transmitter for transmission of selected information relating to the system to a remote monitoring location.

6. (Previously presented) The mosquito misting system of claim 5 wherein the selected information includes an indicator of a level of fluid insecticide remaining in the fluid reservoir.

7. (Previously presented) The mosquito misting system of claim 5 wherein the selected information includes an indicator of low pressure within the fluid conduit.

8. (Previously presented) The mosquito misting system of claim 5 wherein the selected information includes information relating to a physical location of the system.

9. The mosquito misting system of claim 5 wherein the selected information includes information identifying an owner of the system.

10. (Previously presented) The mosquito misting system of claim 1 further comprising a moisture sensor for detection of rain proximate the system, the moisture

sensor being operably associated with the controller so that detection of an unsuitable weather condition will result in cancellation of a spray cycle.

11. (Currently amended) A mosquito misting system comprising:

a) a fluid reservoir ~~for~~ containing fluid insecticide;

b) a misting nozzle for dispersal of fluid insecticide;

c) a conduit for transmitting fluid insecticide from the reservoir to the nozzle;

d) a pump for flowing fluid insecticide through the conduit;

e) a ~~programmable~~ controller having a programmable digital processor and a timer for selectively operating the pump and the agitator in accordance with pre-programmed control parameters, the preprogrammed control parameters including a timed cycle of operation for the pump; and

f) a level sensor assembly having a plurality of float sensor assemblies for detection of a liquid level within the fluid reservoir.

12. (Previously presented) The mosquito misting system of claim 11 wherein the level sensor assembly provides a signal to the controller indicative of the liquid level and the controller provides a display of the liquid level.

13. (Currently amended) The mosquito misting system of claim 11 further comprising an agitator ~~for~~ drawing outside air into the fluid reservoir ~~for~~ and mixing ~~of~~ fluid insecticide within the reservoir and

wherein the controller causes the agitator to operate for mixing of insecticide in conjunction with operation of the pump.

14. (Previously presented) The mosquito misting system of claim 11 further comprising a pressure switch operably associated with the fluid conduit to detect a pressure drop within the conduit and turn off the pump in the event such a drop is detected.

15. (Previously presented) The mosquito misting system of claim 14 wherein the pressure switch provides a signal to the controller indicating a pressure drop in the event a pressure drop in the conduit is detected.

16. (Previously presented) The mosquito misting system of claim 11 further comprising a remote control for operation of the controller.

17. (Previously presented) The mosquito misting system of claim 11 further comprising a transmitter for transmission of selected information relating to the system to a remote monitoring location.

18. (Previously presented) The mosquito misting system of claim 17 wherein the selected information includes an indicator of a level of fluid insecticide remaining in the fluid reservoir.

19. (Previously presented) The mosquito misting system of claim 17 wherein the selected information includes an indicator of low pressure in the fluid conduit.

20. (Currently amended) A mosquito misting system comprising:

a) a fluid reservoir ~~for~~ containing fluid insecticide;

b) a misting nozzle for dispersal of fluid insecticide;

c) a conduit for transmitting fluid insecticide from the reservoir to the nozzle;

d) a pump for flowing fluid insecticide through the conduit;

e) an agitator ~~for~~ drawing outside air into the fluid reservoir ~~for~~ mixing ~~of~~ fluid insecticide within the reservoir;

f) a ~~programmable~~ controller having a programmable digital processor and a timer for selectively operating the pump and the agitator in accordance with pre-programmed control parameters, the preprogrammed control parameters including a timed cycle for operation of the pump and the agitator; and

g) a level sensor assembly having a plurality of float sensor assemblies for detection of a liquid level within the fluid reservoir and providing a signal indicative of such liquid level to the controller.